

O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA
BULLETIN No. 117.
CATTLE MEDICINES

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 117.

CATTLE MEDICINES.

OTTAWA, March, 28, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I recently had the honour of reporting to you the results of examining samples of the cattle feeds and stock foods which are offered for sale to the agricultural public of Canada. At the time these were collected there were also obtained by the food inspectors samples of condition powders so called, which were supposed, like the stock foods, to have good effects in improving the appearance of the animals to whom they were administered. Of these condition powders or cattle medicines there were collected in all 35 samples which are described in the tabulated statement appended to this report. They are classified under the following names :—

Condition powders.....	24	samples.
Regulators	3	"
Pheno-chloro.	1	"
Cattle medicine.....	1	"
Hog powder.....	1	"
Worm powders.....	3	"
Cholic cure.....	1	"
Heave cure.....	1	"
	35	"

It will be seen that only 5 out of the 35 samples are cattle medicines intended for use in cases of specified disease, while the other thirty are supposed to be applicable to all the ills that cattle flesh is heir to. This supposition is sustained by the claims actually made on behalf of about two-thirds of these samples on their labels or wrappers, and noted in the column headed 'Inspectors' report.' Others, such as serial Nos. 5, 7, 8, 9, 18, &c., were sold in bulk and without any claim having been made. Some of the claims

recorded (see serial numbers 4, 10 and 20) would really be comical as regards the universal applicability of the medicines if it were not too serious a matter for the poor animals to whom they are to be administered.

The condition powders consist largely of linseed meal, oil cake meal, or bran in which are distributed more or less of other substances which are supposed to have purgative, diuretic, hæmatinic or tonic effects. These powders are in fact the proprietary or patent medicines supposed to be good for farm animals. They vary very much as regards composition. Some condition powders contain chlorides and nitrates; in others such salts are absent; a third class has sulphates in addition to chlorides and nitrates. In a fourth only the sulphates are present in considerable quantity. In some, free sulphur appears to be the characteristic constituent, and, in others, antimony. It does not seem fair to the farmers that remedies differing so much in their ingredients should be sold under a common name, nor can it be advantageous to his animals to have medicines administered without much regard to the nature of the disease. The 'regulators' contain, as a rule, iron salts, but otherwise are just as diverse in composition as the condition powders. Among the specific remedies the worm powders exhibit similar diversity in composition, and do not seem to contain the drugs usually prescribed by veterinarians as vermicides.

That there are remedies for specific diseases, used in veterinary practice, which are sold as such is no doubt the case, but as regards the universal cattle medicine or 'cure all,' it is very doubtful as to whether the farmer obtains value for his money. How to regulate the traffic in these it is difficult to say.

As regards the 'adulteration' of these cattle medicines it would seem to be difficult to apply to them the provisions of the Adulteration Act. It is true that the latter defines the expression 'drug' as including all medicines for internal or external use for man or for cattle. The Act further provides that every drug shall be deemed to be 'adulterated' if its strength or purity falls below the professed standard under which it is sold or offered or exposed for sale. But for cattle medicines there are no 'professed standards,' and even if there were, it is enacted that these should not apply if 'the food or drug is a proprietary medicine.'

I beg to recommend the publication of this report.

I have the honor to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		
Dec. 7	Dr. Illaley's Tonic Condition Powders.	27115	J. D. Clark, Kentville, N.S., retail druggist and agent for manufacturer.	3 pkgs., 75c.	B. R. Illaley, Kentville, N.S.
" 8	Cattle Medicine	27119	Crowe Bros., retail druggists, Truro, N.S.	1 lb., 50c.	Dairy Association, Lyndonville, Vt.
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
" 2	Evangeline Condition Powders.	24124	The Canadian Drug Co., Ltd., 29-33 Mill St., St. John, N.B.	3 pkgs., 75c.	Vendors.....
" 5	Barker's Universal Condition Powders for the cure of horses, cattle, sheep and swine.	24126	T. B. Barker & Sons, 57-59 Dock St., St. John, N.B., wholesale druggists.	3 " 75c.	"
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>		
" 7	Condition Powder	28255	C. D. Rankin, Charlottetown.	1 pkg., 25c.	Hirtles Acma Man'g. Co., Lunenburg, N.S.
			<i>District of Quebec—C. E. Roy, Inspector.</i>		
Nov. 27	Dr. Scott's Condition Powder.	29048	Langlois & Paradis, Quebec	½ doz., 30c.	Henri Jonas & Cie, Montreal.
" 29	Poudre de Condition	29053	Drouin & Frère, Quebec...	25c.	Jos. Julien, Pont Rouge, Que.
" 29	Dr. Hervay's Condition Powders for horses and cattle.	29054	" "	20c.	The Dr. Hervay's Chemical Co., St. Basile, Que.
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>		
Dec. 5	Carnafac Worm Powder.	24792	Cookshire Flour Mills Co., Cookshire.	1 pkg., 50c.	Carnafac Stock Food Co., Winnipeg, Man.
			<i>District of Montreal—J. J. Costigan, Inspector.</i>		
Nov. 28	Pratt's Animal Regulator	26857	Dupuis & Ferguson, 38 Jacques Cartier Square, Montr. i.	3 pkgs., 90c.	Imported. Labelled as manufactured in Philadelphia.
" 29	Maud 'S.' Condition Powder for the diseases of horses, cattle, &c.	26858	G. Daoust, St. Anne, Bellevue, Que.	5 " 50c.	Davis, Lawrence Co. Ltd.

OF CATTLE MEDICINES.

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			
			Total Ash.	Aqueous Extract.		General Examination.
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
Recommended for the cure of loss of appetite, stoppage of water, worms, roughness of hair, &c.	1	Salt crystals, linseed tissue and other vegetable substances undetermined.	16.66	....	....	Licorice and linseed. Chlorides and nitrates largely present.
Samples sold as garget cure.....	2	Salt crystals, sulphur, some vegetable substances undetermined.	21.80	47.50	17.75	Free sulphur, magnesium sulphate and potassium nitrate.
Recommended for impure blood, rough hair, lost appetite, swellings, thick water, worms, cough, horse ail, hidebound, heaves, stoppage of water and bowels.	3	Salt crystals, linseed, fenugreek, pieces of stems, starch granules resembling those of maize, charcoal, &c.	17.34	19.40	10.90	Chlorides and nitrates; no sulphates.
Recommended for loss of appetite, roughness of the hair, stoppage of bowels or water, or thick water, all coughs and colds, swelling of the glands of the throat, worms, horse ail, hidebound, thick wind and heaves.	4	Large amount of linseed tissue, salt crystals, fenugreek, rosin.	8.44	.....	.....	Linseed and free sulphur.
.....	5	Charcoal, fenugreek, salt crystals, &c.	4.34	...	...	Charcoal, no chlorides nor nitrate; constituents chiefly vegetable.
Package labelled, 'this powder gives appetite, causes a fine coat, acts on the urine, purifies the blood, destroys worms.'	6	Linseed tissue, rosin, salt crystals, fenugreek, other vegetable substances undetermined.	37.06	39.70	30.45	Charcoal, nitre, chlorides, sulphates and antimony present.
.....	7	Salt crystals, sulphur, a little linseed tissue, starch granules, &c.	34.40	35.00	19.50	Sulphates, chlorides and nitrates.
.....	8	Linseed tissue, salt crystals, sulphur, &c.	16.70	21.00	4.25	Linseed and free sulphur.
Bought as a condition powder...	9	Linseed, small berries, pieces of stems, other vegetable substances undetermined.	29.50	39.50	27.00	Chlorides, nitrates, sulphates and antimony present.
Claims that it regulates the bowels, blood and digestive organs, thereby eradicating all diseases.	10	Fenugreek, salt crystals, maize, starch granules, &c.	9.16	36.85	14.10	Chlorides absent and nitrates in small amounts present, also some sulphate of iron and gentian.
For recommendations see No. 20.	11	Linseed, salt crystals, other vegetable substances.	.....	.....	.....	Nitrates and chlorides are absent, sulphates, alumina and iron abundant, heavy metals in traces only.

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Montreal, —Concluded.</i>		
Dec. 2	Purina Condition Powders for cattle, horses and poultry.	26802	G. Labelle, 2 Dorchester St., Montreal.	1 sack, 50c.	Manufactured by vendor.
" 12	Youatt's Condition Powders for horses, cows, sheep, &c.	26878	R. Birks, 207 McGill St., Montreal.	3 pkts., 50c.	Put up by vendor . . .
			<i>District of Ottawa—A. E. Sanderson, Inspector.</i>		
" 4	Columbian Regulator . . .	28472	L. O. Joly, 481 Wellington St.	1 lb., 10c.	Columbian Stock Food Co., Detroit, U.S.A.
" 6	Pratt's Animal Regulator	28473	A. Blyth, 69 William St.	1 pkg., 30c.	Pratt, Philadelphia, U.S.A.
" 6	Myer's Royal Hog Powders.	28474	H. N. Bate & Sons, wholesale.	1 " 31c.	Myer's, Niagara Falls, N.Y.
" 6	Harold's Improved Condition Powders.	28475	S. J. Major, wholesale, York St.	1 " 9c.	Compagnie Canadienne de St. Denis, Mon.
Nov. 6	Telmousse's Condition Powders.	28476	" " "	1 pkg., 12c.	Dr. A. L. Telmousse's, Hull, Que.
" 6	Wade's Condition and Worm Powders.	28477	" " "	" 8c.	Wade, Hamilton, Ont.
" 6	Maud 'S.' Condition Powders for horses, cattle, sheep and poultry	28478	" " "	1 " 9c.	Davis & Lawrence Co., Ltd., Montreal.

OF CATTLE MEDICINES—Continued.

Inspector's Report.		Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			General Examination.
				Total Ash.	Aqueous Extract.		
					At 100°.	Ignited.	
			p. c.	p. c.	p. c.		
Put up in 6½-lb. bags. Sold as a great blood purifier, and for loss of appetite, constipation, biliousness, worms, coughs and other complaints.	12	Linseed meal, wheat, maize and probably oat starch granules.	3.64	14.90	1.90	Chiefly herbaceous, wheat starch and bran in large quantities, sulphates in traces.	
Retailed at 20c. per package	13	Fenugreek, linseed, salt crystals, sulphur, some other vegetable substances undetermined.	13.00	25.45	5.45	Charcoal, linseed and free sulphur.	
Guaranteed.....	14	Salt crystals, wheat starch granules, bran, &c.	17.90	30.00	..	Chlorides and sulphates largely present, also iron and alumina, no other heavy metals; bran.	
See No. 10.	15	Fenugreek, aniseed, salt crystals, maize, starch, &c.	.....	.....	.....	Chlorides absent, nitrates present in small amounts, much sulphate of iron, contains gentian.
.....	16	Salt crystals, sulphur, antimony.	37.10	52.25	.....	Chlorides absent, charcoal and free sulphur present, also sulphates, nitrates and arsenic.
Said to give an appetite, cause a fine coat, act on the urine, purify the blood, and destroy worms.	17	Linseed tissue, salt crystals, charcoal, &c.	11.80	.....	.....	Linseed, nitrates and sulphates.
.....	18	Salt crystals, aromatic powder, armenian bole, &c.	41.78	46.85	.....	Bran, armenian bole; but is chiefly Epsom salts and carbonate of soda. Soluble ash = 33.04 p.c.
Said to be 'an unparalleled remedy for heaves, hick and broken wind, coughs, colds, inflammation of the lungs, and all diseases which affect the wind of horses.' Also good for yellow water, botts, worms, &c.	19	Linseed tissue, salt crystals, rosin, &c.	40.52	48.05	.....	Wheat bran; antimony present. Soluble ash amounts to 36.3 p.c.
Said to be advantageous when the animal is affected with worms, loss of appetite, roughness of the hair or coat, stoppage of the water or bowels, coughs and colds, inflammation of lungs and bowels, recent founders, swelling of the glands and throat, horse distemper, hidebound, botts, scurvy, loss of wind, horn distemper, black tongue, &c.	20	Rosin, salt crystals, linseed tissue, &c.	8.88	11.30	4.60	Nitrates and chlorides are absent. Sulphates, alumina and iron abundant. Heavy metals in traces only.	

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Ottawa—Con.</i>		
Nov. 6	Carna fac Worm Powder.	28479	D. Martin, 169 Rideau St.	1 " 25c.	W. G. Douglas, Winnipeg.
" 6	International Colic Cure.	28480	H. N. Bate & Sons, wholesale.	1 " 33c.	International Stock Food Co., Minneapolis.
" 6	International Pheno-Chloro.	28482	" " "	1 " 17c.	" " "
" 6	Worm Cure	28483	A. Blyth, 69 William St. . .	1 " 50c.	" " "
" 6	Heave Cure.....	28484	" " "	1 " 50c.	" " "
			<i>District of Kingston—J. Hogan, Inspector.</i>		
" 22	Kentucky Condition Powders.	28538	H. Skinner Co., Princess St., Kingston.	3 lbs., 75c.	H. Skinner Co., Kingston.
" 27	Farlinger's Universal Condition Powders for horses, cattle, sheep and pigs.	28549	J. A. Farlinger, Morrisburg.	1½ " 75c.	J. A. Farlinger, Morrisburg, Ont.
" 28	Condition Powder	28562	F. W. Conklin, Brockville.	3 " 35c.	F. W. Conklin, Brockville.
			<i>District of Manitoba—W. M. Conklin, Inspector.</i>		
Dec. 11	St. John's Condition Powders.	25713	O. Couture & Co., St. Boniface.	3 pkgs., 75c.	The Martin, Bole & Wynne Co., Winnipeg.
" 22	Condition Powder	25716	The Bole Drug Co., Winnipeg.	1 lb., 25c.	The Bole Drug Co., Winnipeg.
" 22	St. John's Condition Powders for horses, horned cattle, sheep and hogs.	25717	The Martin, Bole & Wynne Co., Winnipeg.	3 pkgs., 75c.	The Martin, Bole & Wynne Co., Winnipeg.
			<i>District of Calgary—W. Fletcher, Inspector.</i>		
" 15	Bole's Condition Powders for horses, cattle, sheep, hogs, &c.	28612	The Bole Drug Co., Calgary, wholesale.	3 " 45c.	The Bole Drug Co. Winnipeg.

OF CATTLE MEDICINES—*Continued.*

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			
			Total Ash.	Aqueous Extract.		General Examination.
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
.....	21	Linseed tissue, small berries, salt crystals, &c.	28·26	33·40	.....	Wheat bran, chlorides, sulphates and iron. The fineoxide present amounts to 2·4 p.c. Soluble ash=18·6 p.c.
Said to be a quick and sure cure for spasmodic colic, gas colic, flatulent colic, kidney colic, bloat, acute indigestion, grain founder and stoppage of water.	22	Brown coloured liquid...	.....	.....	.....	Liquid. Contains much Glauber's salt in solution.
Sold as 'the greatest known disinfectant, antiseptic and germicide.	23	Thick brown liquid, smelling of tar.	.....	.....	.....	Is essentially crude carbolic acid.
Guaranteed.....	24	Salt crystals, some aromatic powder, a little linseed tissue, charcoal, wheat starch, &c.	46·4	60·20	43·95	Ash is chiefly common salt.
"	25	Salt crystals, wheat starch granules, bran, gum asafetida; other vegetable substances undetermined.	8·52	21·35	...	Bran, armenian bole, gentian and sulphates. Soluble ash=1·36 p.c.
Recommended for giving tone to the stomach, increasing the appetite and purifying the blood.	26	Fenugreek, linseed tissue, rosin, &c.	19·00	34·75	16·75	Linseed. Much chloride and sulphates. Contains iron and arsenic.
Said to prevent lung troubles, purify the blood, destroy worms, and tone up generally.	27	Linseed tissue, salt crystals, charcoal, rosin, &c.	.....	.....	.....	Contains linseed and licorice; also sulphates, nitrates and antimony.
.....	28	Salt crystals, fenugreek, linseed tissue, &c.	15·00	.....	.....	Much chloride and some sulphate; also licorice and linseed.
.....	29	Fenugreek, salt crystals, linseed, rosin; other vegetable substances undetermined.	17·56	.....	.....	No chlorides or nitrates, but sulphates in large quantity.
.....	30	Salt crystals, rosin, linseed, charcoal or antimony, starch granules undetermined.	15·06	.....	.....	Chlorides; much sulphate and iron.
Recommended 'for horses in low condition, hidebound, bad appetite, low spirits, shaggy coat, broken wind, kidney troubles and inflammation.'	31	Salt crystals, linseed, rosin, &c.	.....	.....	.....	No chlorides or nitrates, but sulphates in large quantity.
Recommended for horses as giving a good appetite, a glossy coat, a loose hide, a healthy appearance and purifying the blood.	32	Fenugreek, linseed tissue, sulphur, salt crystals, &c.	13·50	27·00	10·50	Contains free sulphur; also sulphates, iron and alumina.

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of British Columbia</i> <i>— E. B. Parkinson, Inspector.</i>		
Dec. 12	Beaver's Herbageum Condition Powders.	28052	Fred. Allen, wholesale and retail merchant, Vancouver.	4 lbs., 60c.	The Beaver Mfg. Co., Galt, Ont.
" 13	Nelson's Condition Powders.	28053	The Nelson Drug Stores Co., Ltd., Vancouver.	3 pkgs., 75c.	Nelson Drug Stores Co., Ltd., Vancouver.
" 13	Day's English 'Tonic' Powders.	28055	Walworth, Ralston Co., farmer's implement dealers, Vancouver.	3 " \$1.05	The Days Stock Food Co., London, Eng., and Toronto, Can.

OF CATTLE MEDICINES—*Concluded.*

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			
			Total Ash.	Aqueous Extract.		General Examination.
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
.....	33	Large amount of linseed tissue, salt crystals, fenugreek, &c.	14.56	.....	.....	Linseed, fenugreek, a common salt and nitrates.
Said to be a remedy for coughs, inflamed lungs, distemper, kidney and bladder troubles, heaves, thick and broken wind, roughness of skin, &c.	34	Large amount of linseed tissue; other vegetable substances undetermined.	19.90	25.50	....	Chlorides, sulphates, iron and ammonia present; also arsenic; nitrates absent.
Said to be beneficial for cattle out of condition, increases digestion, regulates the bowels and fattens cattle.	35	Salt crystals, linseed tissue, wheat starch, &c.	17.50	32.5	17.25	Much chlorides, sulphates and iron; a little nitrate; Armenian bole and bran.